

VISION SERIES

A FINE QUALITY COLOUR MONITOR

Manufactured in Korea for Eurocoin Limited By Sejoo Corporation



Distributed throughout Europe by Eurocoin Ltd.



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Information subject to change to improve quality and functions



Safety Information and Warnings

(1) Power-Up Warning

Before servicing is performed, read all the precautions labelled on the CRT and chassis. The power supply of this chassis design provides isolation, so a separate isolation transformer is not required for normal operation.

(2) X-Radiation

The chassis has been designed to avoid X-Ray radiation in accordance with US DHHS rules 21CRT, sub-chapter J. Components which may affect potential excess emission of X-Radiation in horizontal deflection and high voltage circuit including the picture tube etc. are indicated by (*) in the parts list. For replacement purposes, use the same type shown in the parts list.

(3) CRT Warning

All picture tubes used in Vision Series monitors are constructed and certified to be implosion resistant. The picture tube is, however, a highly evacuated component whose outside surfaces are subject to strong external forces. Care must be exercised so as not to bump or scratch the tube during installation or servicing as this may cause the tube to implode, resulting in possible personal injury and property damage. Shatter-proof goggles must be worn by individuals while handling the CRT. High Voltage must be completely discharged before handling.

Do not handle the CRT by the neck.

(4) High Voltage

This monitor contains high voltage derived from power supplies capable of delivering LETHAL quantities of energy.

Do not attempt to service until all precautions necessary for working on high voltage equipment have been observed.

(5) Product Safety Notice

- (1) Inspect wiring for frayed leads.

When service is required, use the same type or specified type of wire and cable ensuring the positioning of the wires is followed, especially in the high voltage and power supply circuitry area.

- (2) Where a short circuit has occurred, replace all components that indicate evidence of overheating. Also, check for evidence of overheating or poor connection on all plastic connectors.

(6) Safety Regulation Approved

C-UL E159083

DHHS 9420433-00

General Technical Characteristics

(1) Power Supply

90-265VAC 50/60HZ

Available power input for the range automatically.

(2) Input Signals

Video-RGB Analog Positive 1V - 5V p.p

Bandwidth(-3dB) -12MHZ typical

Rise Time - Less than 50 nanoseconds

Resolution - 400 x 240 <CGA> . 480 x 350 <EGA>

Sync -TTL Positive or negative going

Separate or Composite

Input impedance : 4.7Kohms for positive going sync.

4.7Kohms for negative going sync.

(3) Horizontal Scan

Frequency : 15.625KHZ \pm 500HZ standard <CGA> . 24.8KHz \pm 500Hz <EGA>.

Width : Adjustable with just one volume control to accommodate active video from 40 to 50 usec.

(4) Vertical Scan

Linearity : \pm 5%

Frequency : 45HZ to 65HZ

(5) Geometric Distortion

: \pm 3% (max)

(6) Picture Size Regulation

: 3%

(7) High Voltage

: 25KV with integral X-Radiation shutdown protection

(8) Environmental Conditions

Temperature : 0° ~55°C

Humidity : 10 ~ 90%, No condensation

(9) Degaussing

Automatic, operating at the beginning of each power-up cycle, providing the monitor has been turned off for at least 20 minutes.

User Adjustable Controls

1. Main PCB

2. Remote Control PCB

3. Flyback Transformer

Brightness	RV 102
Contrast	RV 101
H-Size	RV 701
V-Size	RV 203
H-Position	RV 402
V-Position	RV 204
H-Hold	RV 401
V-Hold	RV 202



Additional Controls

1. Main PCB

V-Linearity RV 201
H-Pincushion RV 801

2. Neck PCB

R-Cut off RV 301
G-Cut off RV 303
B-Cut off RV 305
R-Drive RV 302
G-Drive RV 304
B-Drive RV 306

3. Flyback Transformer

Screen
Focus

These controls have been preset at the factory and should not require further attention.

User Adjustments

(1) Brightness Control

Adjust this control such that the illumination is just barely extinguished from portions of the display which should be black.

(2) Focus Control

Adjust focus control for uniform screen sharpness and overall fine picture detail.

(3) Horizontal Hold Control

This monitor will lock onto signals with horizontal scan rates at 15.75KHZ with no adjustment of the Horizontal Hold Control. Horizontal capture range can be increased to between 14.5-16.8KHZ through adjustment of the Horizontal Hold Control. This should be necessary only in the case of very unique signal sources. With the monitor being driven with display signal, adjust the Horizontal Hold Control until the display stops sliding horizontally.

Note: If the sync signal is composite, use the horizontal sync input of the same polarity as the composite sync signal.

(4) Horizontal Size Control

This monitor utilises unique circuitry such that the horizontal width of the display is regulated by volume control as opposed to variable inductance coils. Adjust the H-Size Control until the image attains the correct horizontal proportions.

(5) Horizontal Position

Adjust until the image is centred horizontally.

(6) Vertical Size

Adjust the V-Size Control until the image attains the correct vertical proportions.

(7) Vertical Position

Adjust slowly until the image attains the correct vertical proportions.

(8) Contrast Control

After proper adjustment of the Brightness Control, adjust the Contrast Control for desired picture intensity.

Mains Input Signal Input and Deflection Yoke Connections Diagram

1	2
---	---

Mains Supply
90-265VAC

1	2	3	4	5	6
---	---	---	---	---	---

Input Signals and Syncs

1. Blue
2. Green
3. Red
4. GND
5. Vertical Sync
6. Horizontal Sync

1	2	3	4
---	---	---	---

Deflection
Yoke

1. Horizontal
2. Horizontal
3. Vertical
4. Vertical

High Voltage Shutdown Circuit

This monitor contains an X-Ray protection circuit. A reference voltage is generated from the E.H.T transformer and is fed via a resistive divider to pin 8 of I.C. TDA 2595.

The voltage appearing at pin 8 is compared with an accurate reference voltage within the I.C. and if the E.H.T. exceeds 30KV, the voltage at pin 8 operates a trigger circuit which inhibits the oscillator and hence the generation of the E.H.T.

The circuit continues to block the oscillator until the cause of the failure has been repaired, and can only be reset by completely switching off the monitor and switching on again.

White Balance Procedure

Steps 1-5 require the RGB inputs to be grounded while the horizontal and vertical sync inputs are connected at nominal scan rate.

Steps 6-8 require the use of a standard RGB pattern generator.

If a pattern generator is not available, acceptable results may be obtained using the game programme.

- (1) Set the three Cut-off controls, RV 301, RV 303 and RV 305 to their minimum positions, fully counter-clockwise. These controls are located on the CRT neck PCB.
- (2) Set the three Video Drive controls, RV 302, RV 304 and RV 306 to their middle settings.
- (3) Set the Bright Control RV 102 and Contrast Control RV 101 to their minimum positions, fully counter-clockwise.
- (4) Slowly turn the screen control located on the FBT, clockwise until the raster is just visible. Observe the colour of the raster. This is the lead colour and its associated Cut-off Control should remain fully counter-clockwise for the remainder of this period.
- (5) Adjust the Bright Control for a dim raster
Adjust the two remaining Cut-off Control for best grey uniformity.
- (6) Using a colour bar pattern, adjust the Video Drive Controls for best neutral white and colour saturation in the colour bar pattern.
- (7) Adjust the Bright and Contrast Controls for proper screen illumination.
- (8) If necessary, repeat steps 5 and 6 until good tracking of white balance is achieved.

Degaussing Circuit

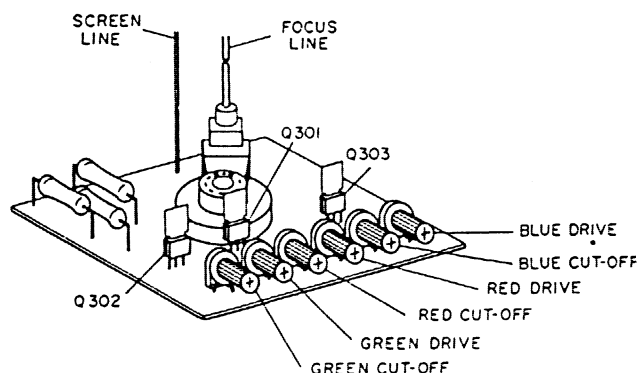
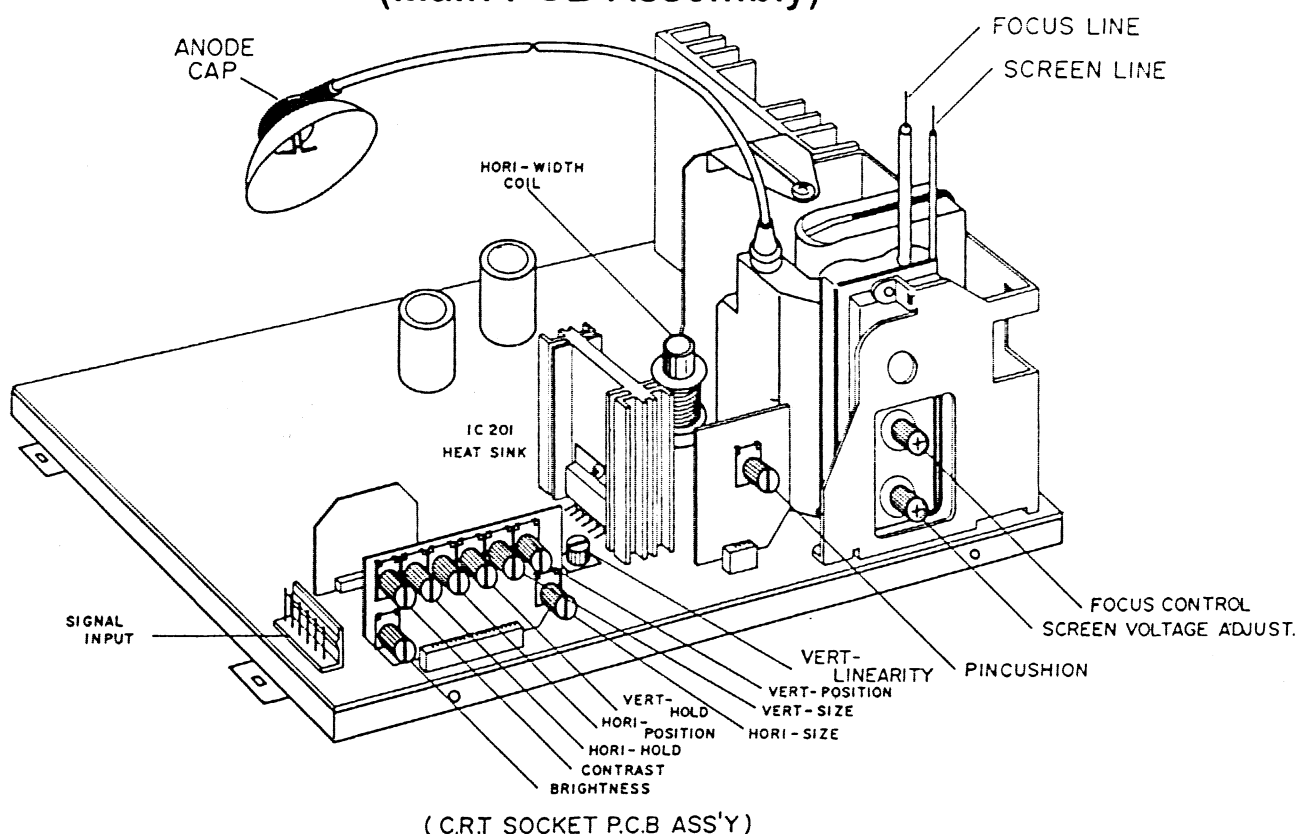
The monitor is equipped with an automatic degaussing circuit.

However, if the CRT shadow mask has been excessively magnetised, it may be necessary to degauss it with a manual coil. Do not switch the coil off while the raster shows any effect from the coil.

The automatic degaussing circuit is activated only when the monitor is initially powered up having been off for at least 20 minutes.

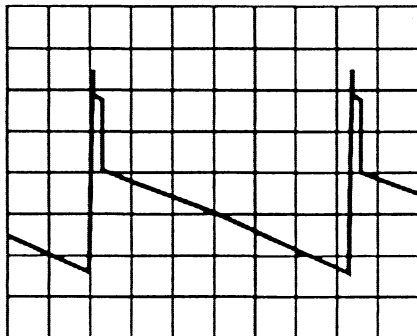
PR601 is a positive temperature coefficient device. When it is cold, it has a very low resistance. As it gets warm, its resistance increases. If PR601 of the monitor is cold when AC power is applied, then PR601 with a low resistance allows high current to pass through degaussing coil. As current flows through PR601, it heats up and eventually has a very high resistance allowing very little current to flow through it. The process of initially having a large current decays to zero before the CRT warms up, so the degaussing is completed before the picture comes on.

Controls and Adjustment (Main PCB Assembly)

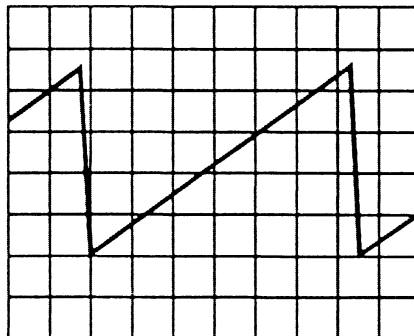


Oscilloscope Waveform Pattern

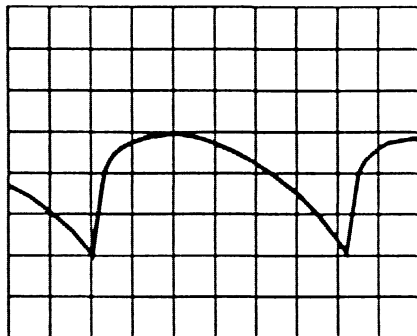
1. Vert.-Output
50 Vp-p



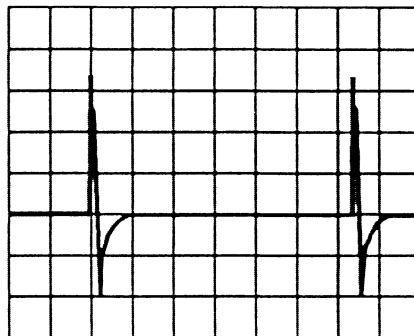
2. Vert.-Linearity
5 Vp-p



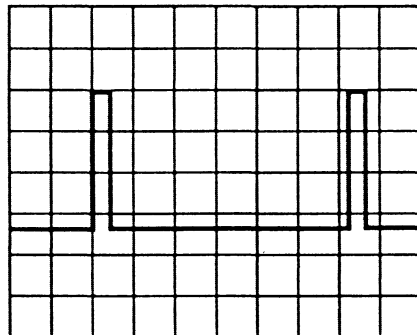
3. Vert.-Output
2.5 Vp-p



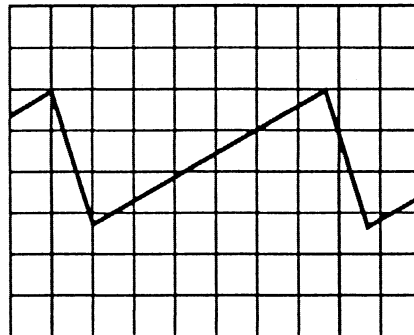
4. Vert.-Sync
15 Vp-p



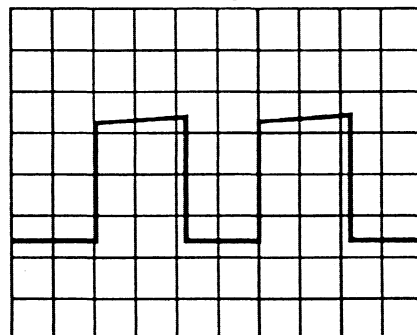
5. Vert.-Blanking
26 Vp-p



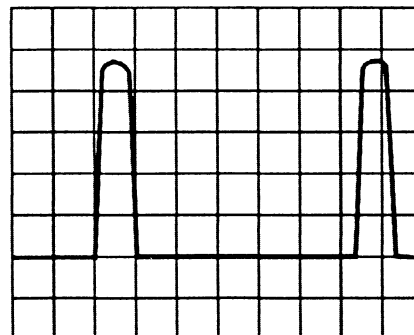
6. Hori.-O.S.C.
3.5 Vp-p



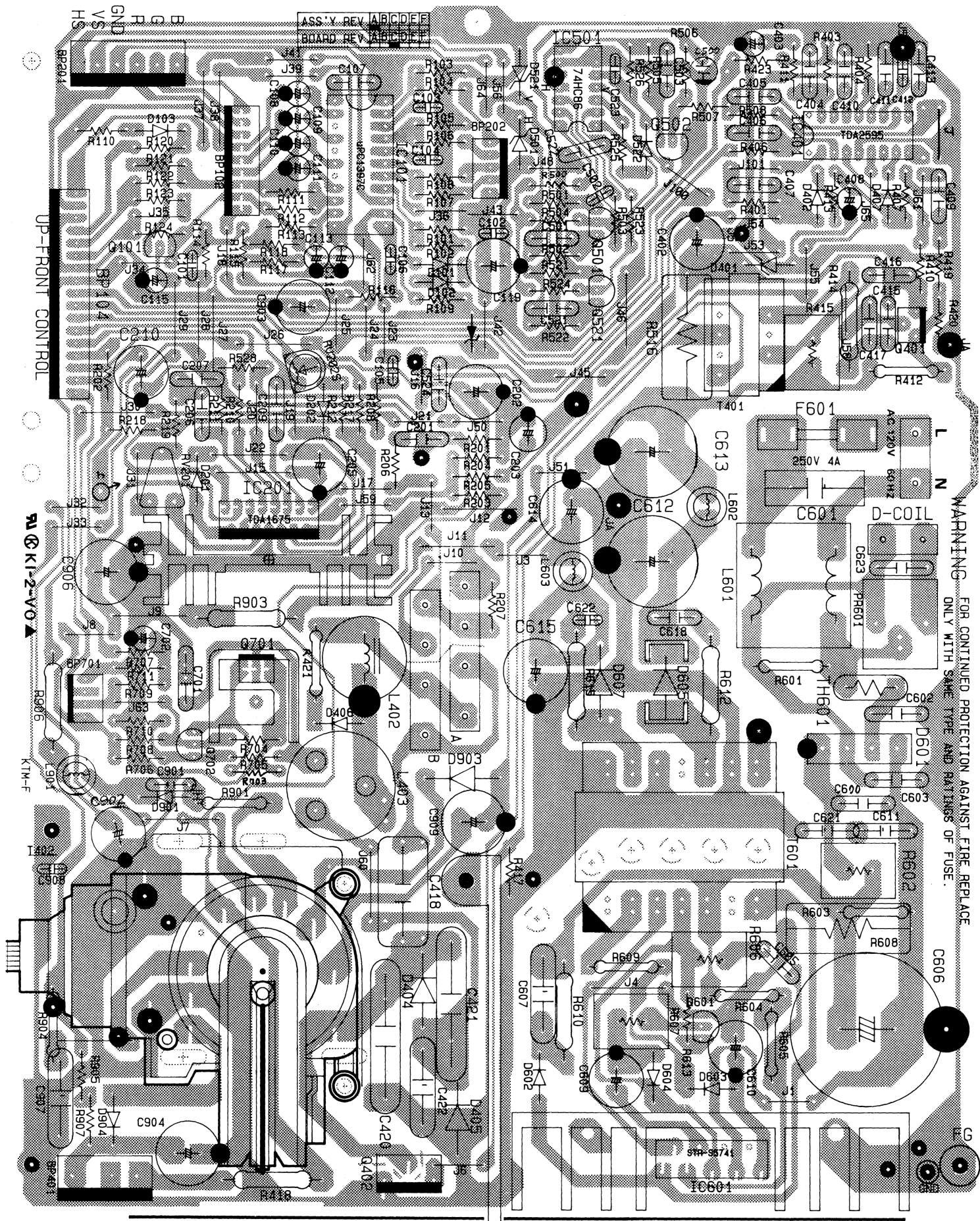
7. Hori.-Driver
5.5 Vp-p



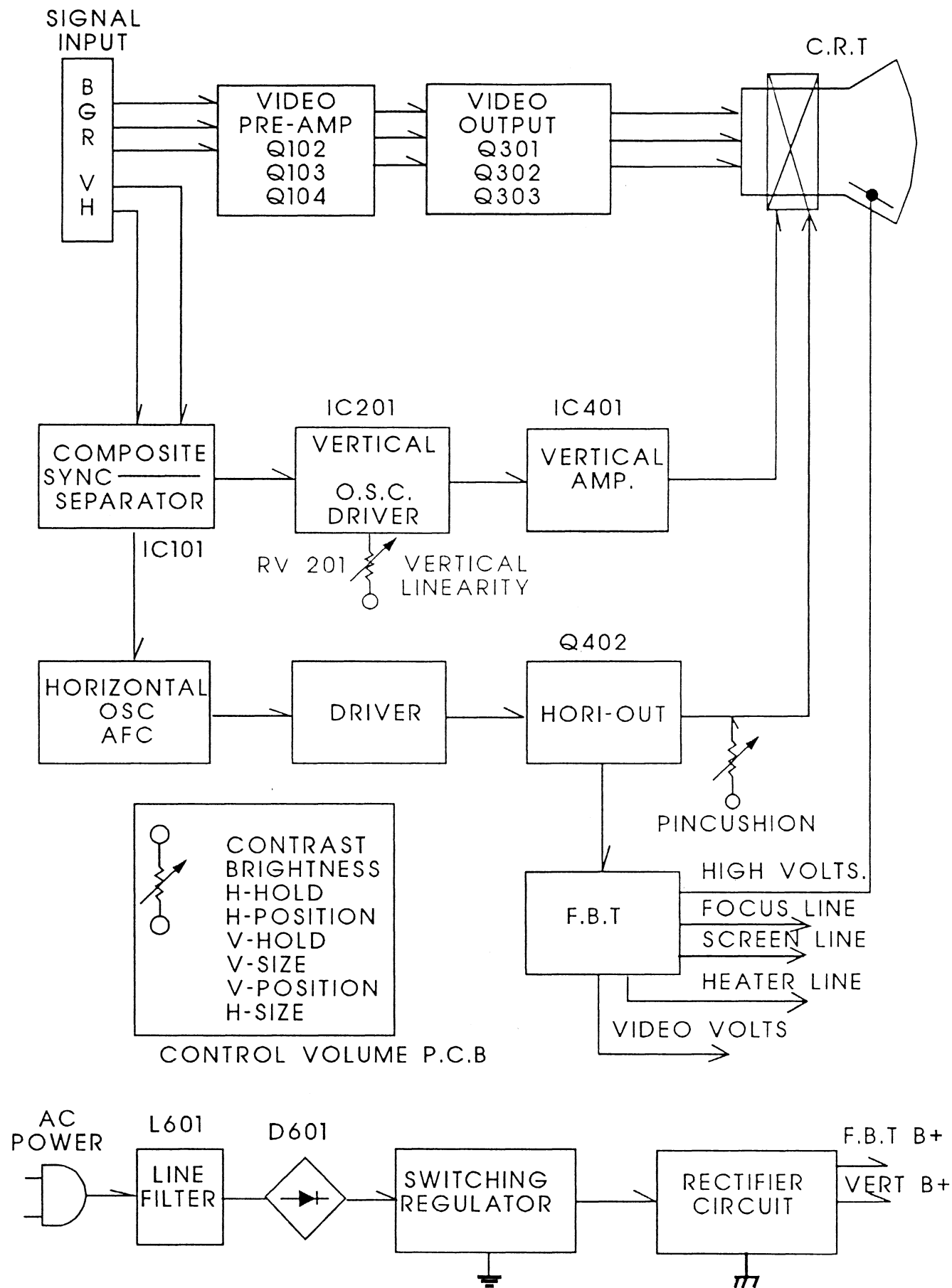
8. Hori.-Output
1050 Vp-p



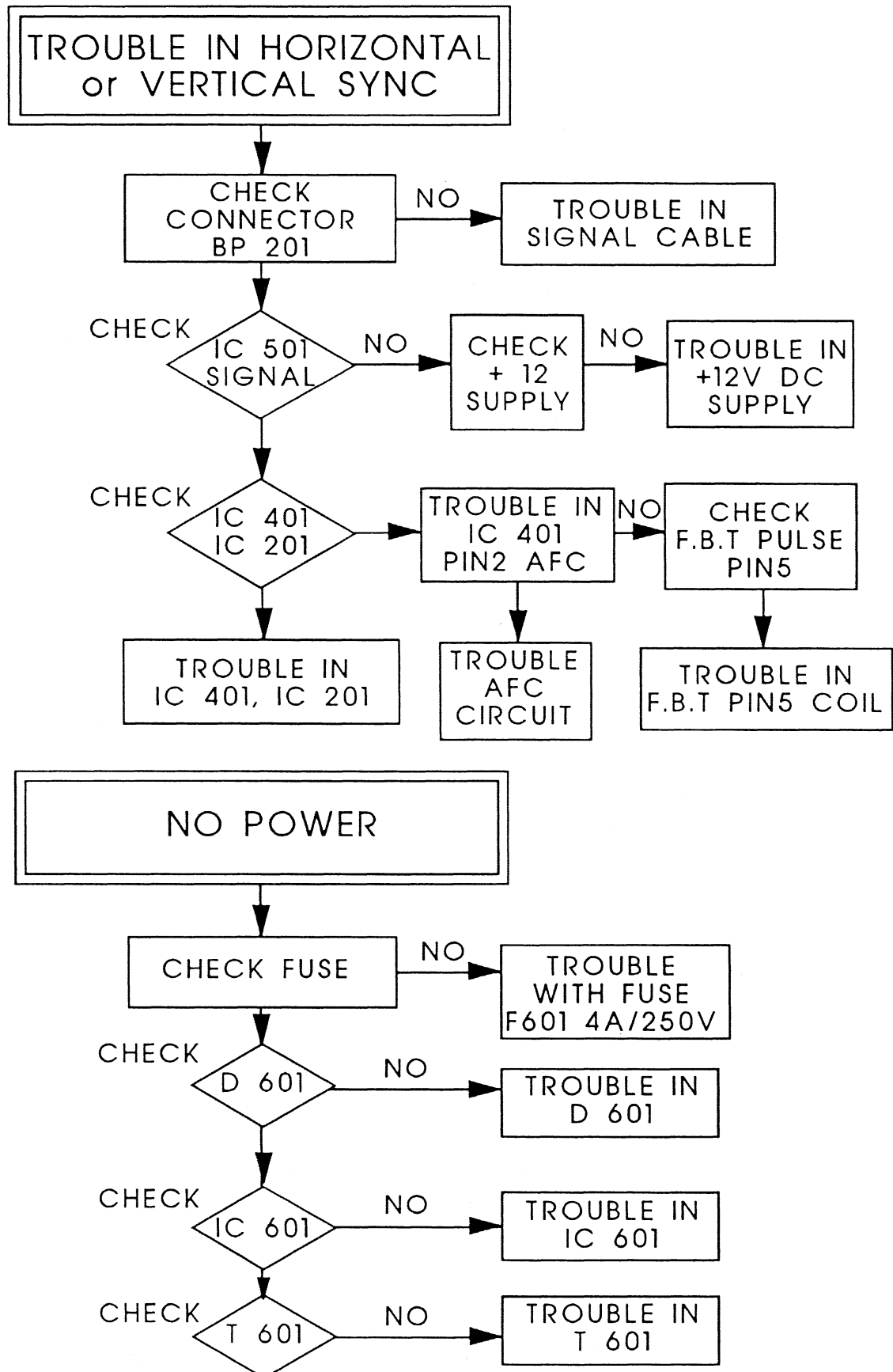
Main Board



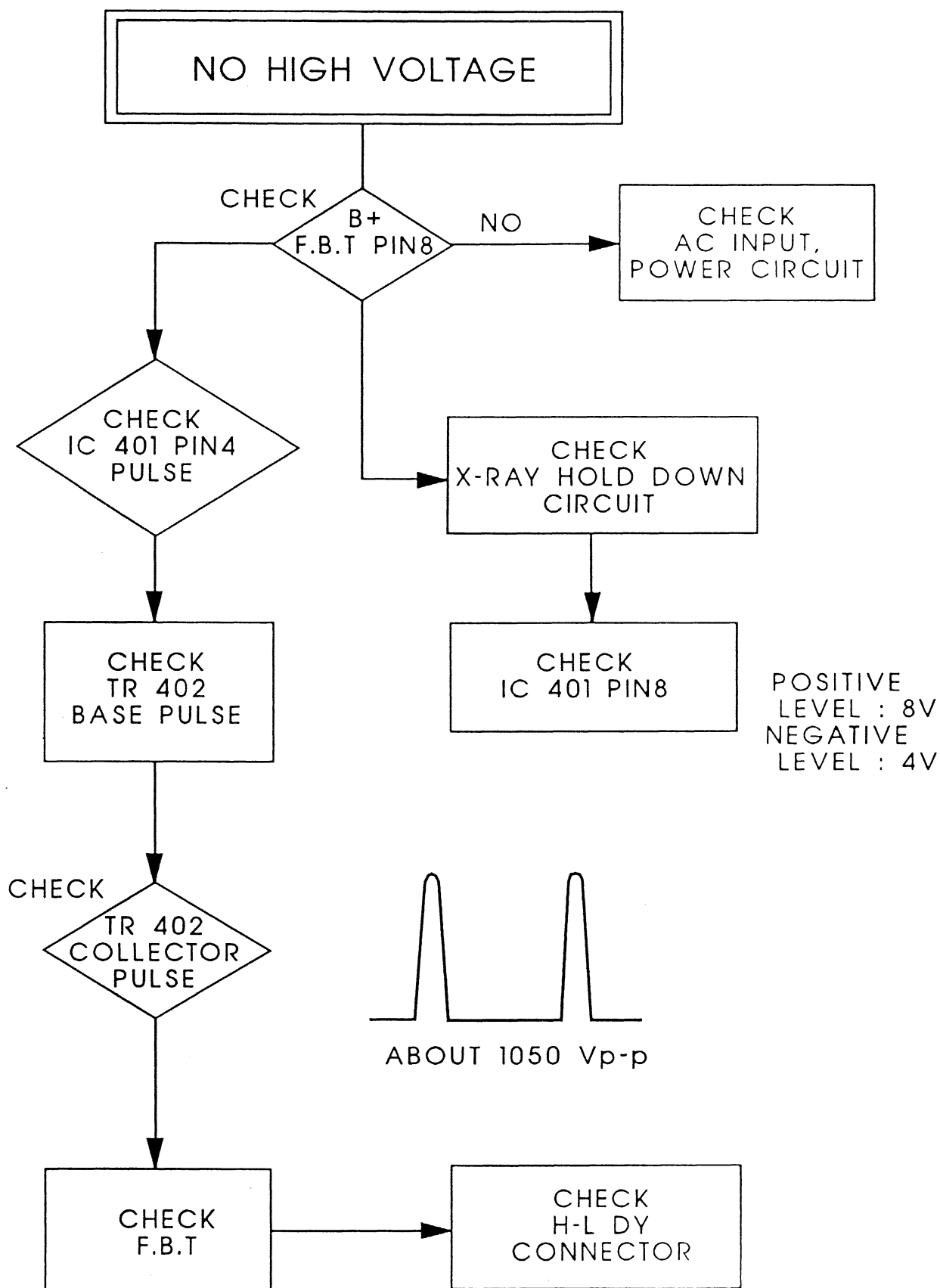
Block Diagram



Troubleshooting Chart

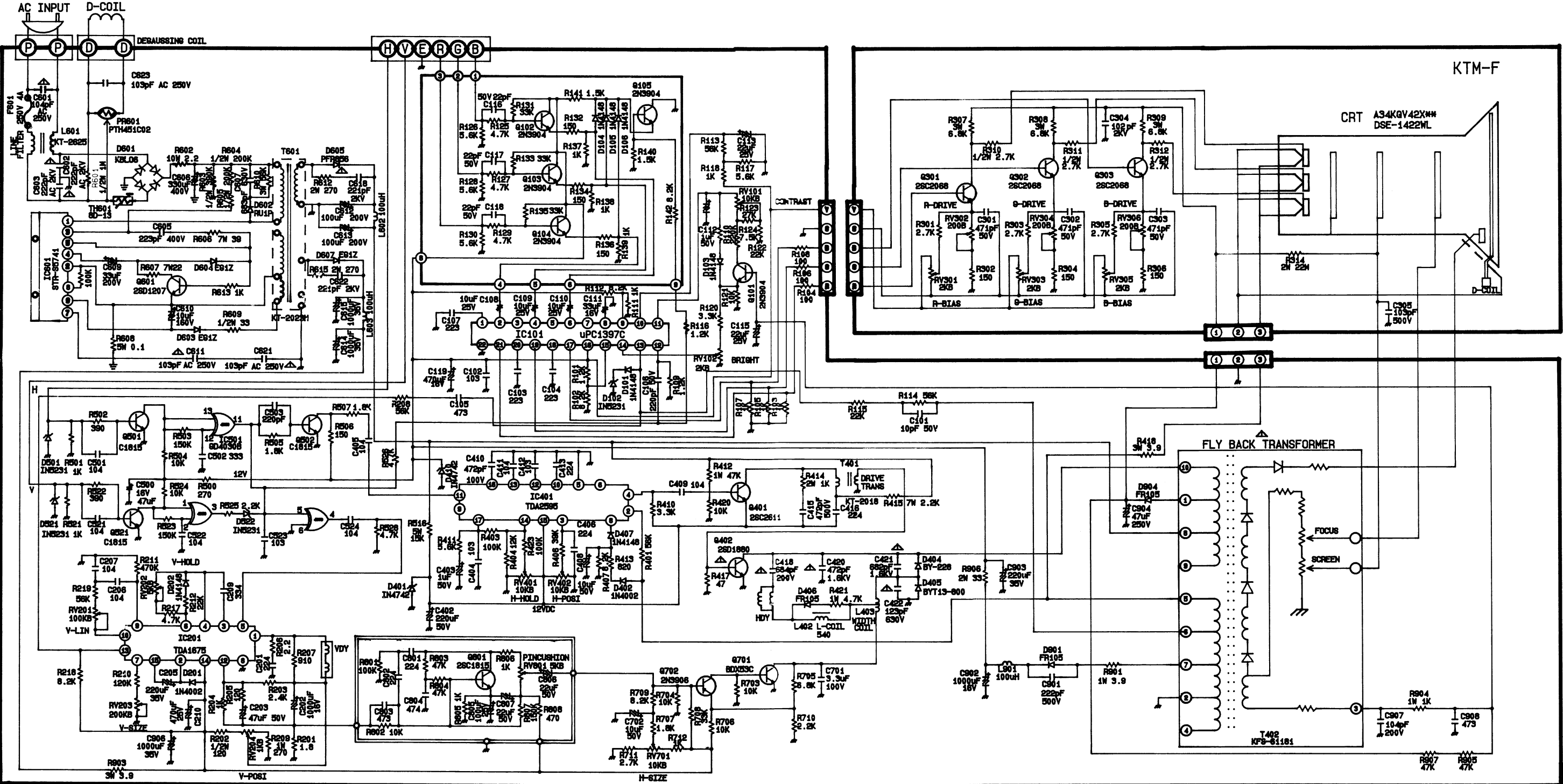


Troubleshooting Chart Contd.



Schematic for Vision 14"

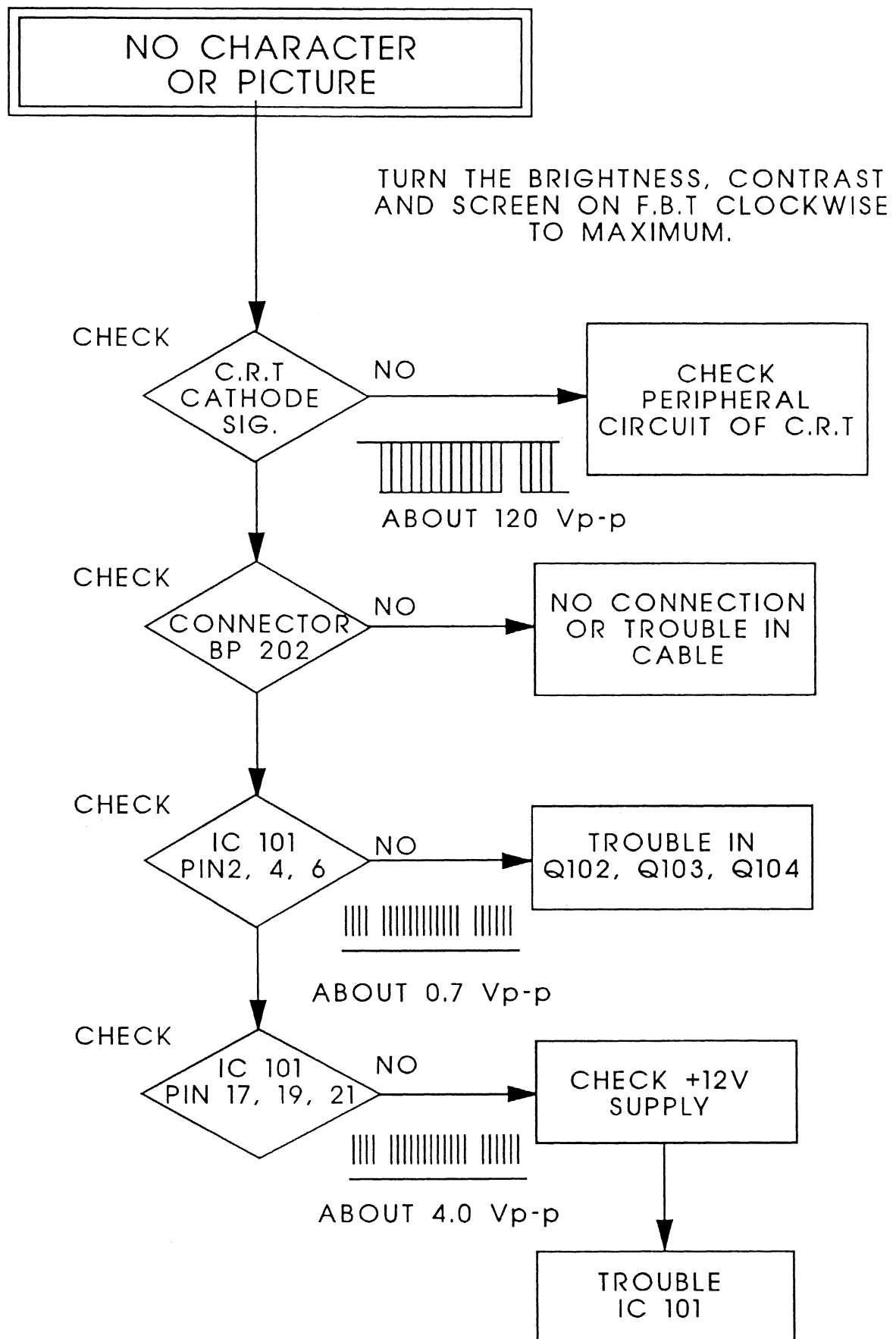
Part No. 31101210



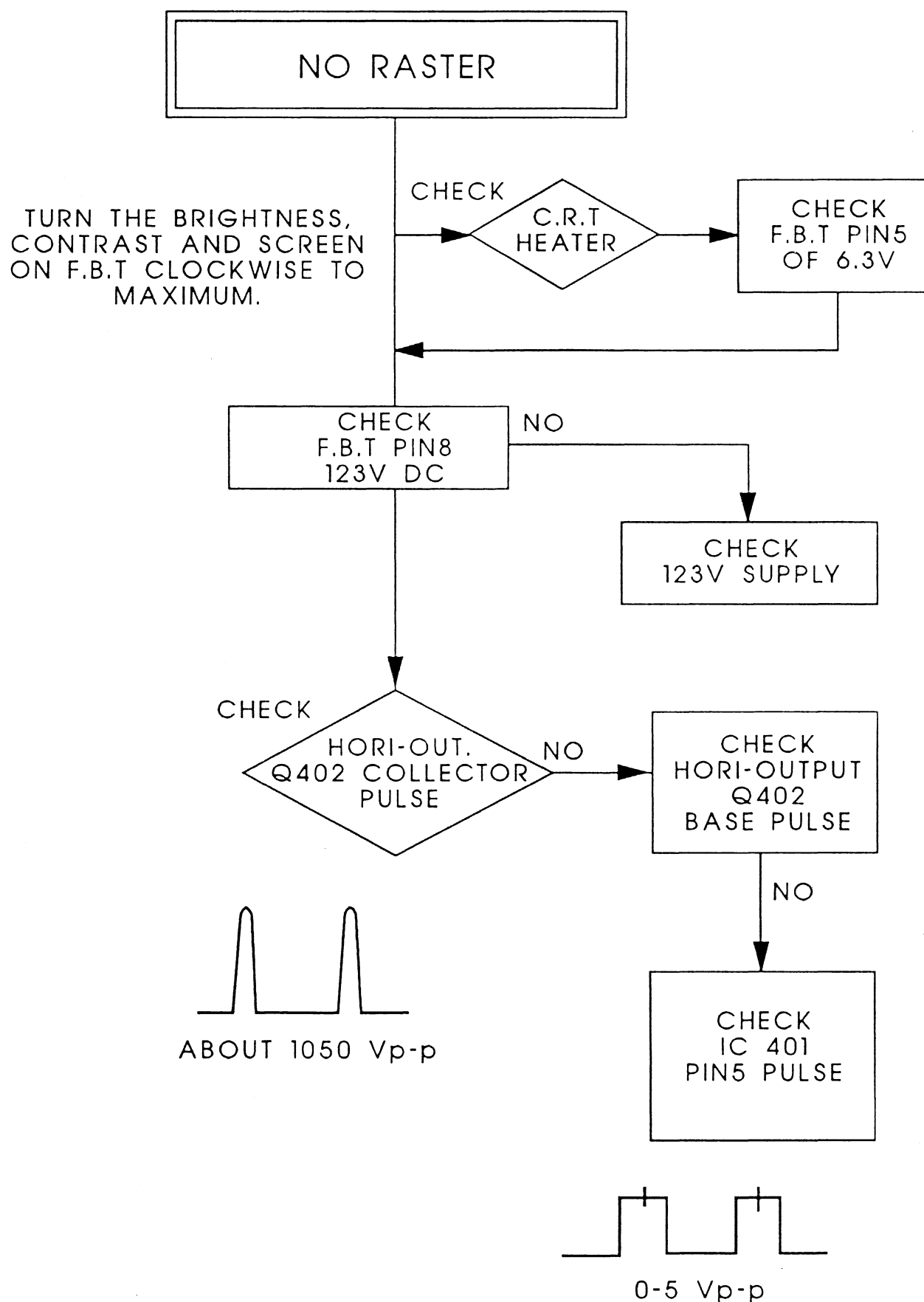
950616-1

Appendix A - Schematic Diagram 31101210/A

Troubleshooting Chart Contd.



Troubleshooting Chart Contd.



KTM-F 14" PARTS LIST

CRT NO.: A34KQV42X02 - 22.5φ NECK BOARD
D.Y NO.: DSE-1422WL

CODE NO.	DESCRIPTION	REF. NO	CODE NO.	DESCRIPTION	REF. NO
RESISTORS			RESISTORS		
RC-00530	1/4W 1.2Kohm CARBON	R101	RC-00370	1/4W 150ohm CARBON	R302
RC-00730	1/4W 8.2Kohm CARBON	R102	RC-00590	1/4W 2.7Kohm CARBON	R303
RC-00520	1/4W 1Kohm CARBON	R103	RC-00370	1/4W 150ohm CARBON	R304
RC-00350	1/4W 100ohm CARBON	R104	RC-00590	1/4W 2.7Kohm CARBON	R305
RC-00520	1/4W 1Kohm CARBON	R105	RC-00370	1/4W 150ohm CARBON	R306
RC-00350	1/4W 100ohm CARBON	R106	RM-00815	3W 6.8Kohm METAL	R307
RC-00520	1/4W 1Kohm CARBON	R107	RM-00815	3W 6.8Kohm METAL	R308
RC-00350	1/4W 100ohm CARBON	R108	RM-00815	3W 6.8Kohm METAL	R309
RC-00530	1/4W 1.2Kohm CARBON	R109	RC-01230	1/2W 2.7Kohm CARBON	R310
RC-00980	1/4W 220Kohm CARBON	R110	RC-01230	1/2W 2.7Kohm CARBON	R311
RC-00520	1/4W 1Kohm CARBON	R111	RC-01230	1/2W 2.7Kohm CARBON	R312
RC-00730	1/4W 8.2Kohm CARBON	R112	RM-00678	2W 22Mohm METAL	R314
RC-00890	1/4W 56Kohm CARBON	R113	RC-00890	1/4W 56Kohm CARBON	R401
RC-00890	1/4W 56Kohm CARBON	R114	RC-00930	1/4W 100Kohm CARBON	R403
RC-00810	1/4W 22Kohm CARBON	R115	RC-00770	1/4W 12Kohm CARBON	R404
RC-00530	1/4W 1.2Kohm CARBON	R116	RC-00860	1/4W 39Kohm CARBON	R406
RC-00690	1/4W 5.6Kohm CARBON	R117	RC-00730	1/4W 8.2Kohm CARBON	R407
RC-00520	1/4W 1Kohm CARBON	R118	RC-00610	1/4W 3.3Kohm CARBON	R410
RC-00610	1/4W 3.3Kohm CARBON	R120	RC-00690	1/4W 5.6Kohm CARBON	R411
RC-00750	1/4W 10Kohm CARBON	R121	RM-00410	1W 47Kohm METAL	R412
RC-00810	1/4W 22Kohm CARBON	R122	RC-00510	1/4W 820ohm CARBON	R413
RC-00830	1/4W 27Kohm CARBON	R123	RM-00590	2W 1Kohm METAL	R414
RC-00720	1/4W 7.5Kohm CARBON	R124	RT-00089	7W 2.2Kohm CEMENT	R415
RC-00125	1/16W 4.7Kohm CARBON	R125	RC-00310	1/4W 47ohm CARBON	R417
RC-00126	1/16W 5.6Kohm CARBON	R126	RM-00691	3W 3.9ohm METAL	R418
RC-00125	1/16W 4.7Kohm CARBON	R127	RC-00410	1/4W 270ohm CARBON	R419
RC-00126	1/16W 5.6Kohm CARBON	R128	RC-00750	1/4W 10Kohm CARBON	R420
RC-00125	1/16W 4.7Kohm CARBON	R129	RM-00330	1W 4.7Kohm METAL	R421
RC-00126	1/16W 5.6Kohm CARBON	R130	RC-00930	1/4W 100Kohm CARBON	R423
RC-00154	1/16W 33Kohm CARBON	R131	RC-00520	1/4W 1Kohm CARBON	R501
RC-00040	1/16W 150ohm CARBON	R132	RC-00430	1/4W 390ohm CARBON	R502
RC-00154	1/16W 33Kohm CARBON	R133	RC-00960	1/4W 150Kohm CARBON	R503
RC-00040	1/16W 150ohm CARBON	R134	RC-00750	1/4W 10Kohm CARBON	R504
RC-00154	1/16W 33Kohm CARBON	R135	RC-00550	1/4W 1.8Kohm CARBON	R505
RC-00040	1/16W 150ohm CARBON	R136	RC-00370	1/4W 150ohm CARBON	R506
RC-00080	1/16W 1Kohm CARBON	R137	RC-00550	1/4W 1.8Kohm CARBON	R507
RC-00080	1/16W 1Kohm CARBON	R138	RM-00940	5W 15Kohm CEMENT	R516
RC-00080	1/16W 1Kohm CARBON	R139	RC-00520	1/4W 1Kohm CARBON	R521
RC-00090	1/16W 1.5Kohm CARBON	R140	RC-00430	1/4W 390ohm CARBON	R522
RC-00090	1/16W 1.5Kohm CARBON	R141	RC-00960	1/4W 150Kohm CARBON	R523
RC-00130	1/16W 8.2Kohm CARBON	R142	RC-00750	1/4W 10Kohm CARBON	R524
RC-00200	1/4W 1.8ohm CARBON	R201	RC-00570	1/4W 2.2Kohm CARBON	R525
RC-01135	1/2W 120ohm CARBON	R202	RC-00660	1/4W 4.7Kohm CARBON	R526
RC-00580	1/4W 2.4Kohm CARBON	R203	RC-00660	1/4W 4.7Kohm CARBON	R528
RC-00520	1/4W 1Kohm CARBON	R204	RC-01360	1/2W 1Mohm CARBON	R601
RC-00360	1/4W 120ohm CARBON	R205	RT-00101	10W 2.2ohm CEMENT	R602
RC-00210	1/4W 2.2ohm CARBON	R206	RC-01335	1/2W 390Kohm CARBON	R603
RC-00515	1/4W 910ohm CARBON	R207	RC-01286	1/2W 200Kohm CARBON	R604
RC-00890	1/4W 56Kohm CARBON	R208	RC-01286	1/2W 200Kohm CARBON	R605
RM-00190	1W 270ohm METAL	R209	RT-00087	7W 39ohm CEMENT	R606
RC-00940	1/4W 120Kohm CARBON	R210	RT-00085	7W 22ohm CEMENT	R607
RC-01030	1/4W 470Kohm CARBON	R211	RT-00010	5W 0.1ohm CEMENT	R608
RC-00810	1/4W 22Kohm CARBON	R212	RC-01090	1/2W 33ohm CARBON	R609
RC-00660	1/4W 4.7Kohm CARBON	R217	RM-00830	3W 56Kohm METAL	R610
RC-00730	1/4W 8.2Kohm CARBON	R218	RM-00545	2W 270ohm METAL	R612
RC-00890	1/4W 56Kohm CARBON	R219			
RC-00590	1/4W 2.7Kohm CARBON	R301			



KTM-F 14" PARTS LIST

CODE NO.	DESCRIPTION			REF. NO	CODE NO.	DESCRIPTION			REF. NO
RESISTORS					CAPACITORS				
RC-00520	1/4W	1Kohm	CARBON	R613	CM-00070	223pF	100V	MYLAR	C107
RM-00545	2W	270ohm	METAL	R615	CE-00728	BP 10uF	25V	ELECTROLYTIC	C108
RC-00750	1/4W	10Kohm	CARBON	R703	CE-00728	BP 10uF	25V	ELECTROLYTIC	C109
RC-00750	1/4W	10Kohm	CARBON	R704	CE-00728	BP 10uF	25V	ELECTROLYTIC	C110
RC-00710	1/4W	6.8Kohm	CARBON	R705	CE-00070	33uF	16V	ELECTROLYTIC	C111
RC-00750	1/4W	10Kohm	CARBON	R706	CE-00280	1uF	50V	ELECTROLYTIC	C112
RC-00550	1/4W	1.8Kohm	CARBON	R707	CE-00160	22uF	25V	ELECTROLYTIC	C113
RC-00850	1/4W	33Kohm	CARBON	R708	CE-00160	22uF	25V	ELECTROLYTIC	C115
RC-00730	1/4W	8.2Kohm	CARBON	R709	CC-00030	22pF	50V	CERAMIC	C116
RC-00570	1/4W	2.2Kohm	CARBON	R710	CC-00030	22pF	50V	CERAMIC	C117
RC-00590	1/4W	2.7Kohm	CARBON	R711	CC-00030	22pF	50V	CERAMIC	C118
RC-00520	1/4W	1Kohm	CARBON	R712	CE-00120	470uF	16V	ELECTROLYTIC	C119
RC-00930	1/4W	100Kohm	CARBON	R801	CM-00080	224uF	100V	MYLAR	C201
RC-00750	1/4W	10Kohm	CARBON	R802	CE-00130	1000uF	16V	ELECTROLYTIC	C202
RC-00880	1/4W	47Kohm	CARBON	R803	CE-00360	47uF	50V	ELECTROLYTIC	C203
RC-00880	1/4W	47Kohm	CARBON	R804	CE-00240	220uF	35V	ELECTROLYTIC	C205
RC-00520	1/4W	1Kohm	CARBON	R805	CM-00030	104pF	100V	MYLAR	C206
RC-00520	1/4W	1Kohm	CARBON	R806	CM-00030	104pF	100V	MYLAR	C207
RC-00960	1/4W	150Kohm	CARBON	R807	CM-00110	334pF	100V	MYLAR	C209
RC-00450	1/4W	470ohm	CARBON	R808	CE-00200	470uF	25V	ELECTROLYTIC	C210
RM-00060	1W	3.9ohm	METAL	R901	CC-00220	471pF	50V	CERAMIC	C301
RM-00691	3W	3.9ohm	METAL	R903	CC-00220	471pF	50V	CERAMIC	C302
RM-00280	1W	1Kohm	METAL	R904	CC-00220	471pF	50V	CERAMIC	C303
RC-00880	1/4W	47Kohm	CARBON	R905	CC-00500	102pF	2KV	CERAMIC	C304
RM-00510	2W	33ohm	METAL	R906	CC-00360	103pF	500V	CERAMIC	C305
RC-00880	1/4W	47Kohm	CARBON	R907	CE-00370	220uF	50V	ELECTROLYTIC	C402
RC-00410	1/4W	270ohm	CARBON	R500	CE-00280	1uF	50V	ELECTROLYTIC	C403
RC-00930	1/4W	100Kohm	PIN②~⑧	1C601	CM-00020	103pF	100V	MYLAR	C404
SEMI-VARIABLE RESISTORS					CM-00030	104pF	100V	MYLAR	C405
					CM-00080	224pF	100V	MYLAR	C406
VR-00380	CET	92E	B 10K W	RV101	CE-00330	10uF	50V	ELECTROLYTIC	C408
VR-00290	CET	92E	B 2K W	RV102	CM-00030	104pF	100V	MYLAR	C409
VR-00410	CET	92E	B 100K W	RV201	CM-00210	472pF	100V	MYLAR	C410
VR-00340	CET	92E	B 5K W	RV202	CM-00030	104pF	100V	MYLAR	C411
VR-00420	CET	92E	B 200K W	RV203	CM-00020	103pF	100V	MYLAR	C412
VR-00280	CET	92E	B 1K W	RV204	CM-00080	224pF	100V	MYLAR	C413
VR-00604	CET	117C	B 2K W	RV301	CC-00430	472pF	500V	CERAMIC	C415
VR-00596	CET	117E	B 200 W	RV302	CM-00080	224pF	100V	MYLAR	C416
VR-00604	CET	117C	B 2K W	RV303	CL-00111	684pF	200V, 250V	METALLIZED	C418
VR-00596	CET	117E	B 200 W	RV304	CL-00390	472pF	1.6KV	METALLIZED	C420
VR-00604	CET	117C	B 2K W	RV305	CL-00400	682pF	1.6KV	METALLIZED	C421
VR-00596	CET	117E	B 200 W	RV306	CL-00193	123pF	630V	METALLIZED	C422
VR-00380	CET	92E	B 10K W	RV401	CM-00130	104pF	100V	MYLAR	C501
VR-00380	CET	92E	B 10K W	RV402	CM-00100	333pF	100V	MYLAR	C502
VR-00380	CET	92E	B 10K W	RV701	CC-00160	221pF	50V	CERAMIC	C503
VR-00340	CET	92E	B 5K W	RV801	CM-00030	104pF	100V	MYLAR	C521
CAPACITORS					CM-00030	104pF	100V	MYLAR	C522
					CM-00020	103pF	100V	MYLAR	C523
CC-00020	10pF	50V	CERAMIC	C101	CM-00030	104pF	100V	MYLAR	C524
CM-00020	103pF	100V	MYLAR	C102	CC-00590	103pF	AC 250V	CERAMIC	C600
CM-00070	223pF	100V	MYLAR	C103	CM-00450	104pF	AC 250V	BOX	C601
CM-00070	273pF	100V	MYLAR	C104	CC-00622	222pF	AC 2KV	CERAMIC	C602
CM-00130	473pF	100V	MYLAR	C105	CC-00622	222pF	AC 2KV	CERAMIC	C603
CC-00160	221pF	50V	CERAMIC	C106	CL-00165	223pF	400V	METALLIZED	C605

KTM-F 14" PARTS LIST

CODE NO.	DESCRIPTION	REF. NO	CODE NO.	DESCRIPTION	REF. NO
CAPACITORS			DIODES		
CE-00710	330uF 400V	ELECTROLYTIC C606	DO-00280	EG1Z, 1N4937	DIODE D607
CL-00216	683pF 630V	METALLIZED C607	DO-00120	1N5231	DIODE-ZENER D521
CE-00900	33uF KME200V	ELECTROLYTIC C609	DO-00120	1N5231	DIODE-ZENER D522
CE-00890	10uF KME160V	ELECTROLYTIC C610	DO-00310	FR105	DIODE D901
CC-00590	103pF AC 250V	CERAMIC C611	JP-00030	J15mm	JUMP WIRE D903
CE-00910	100uF KME200V	ELECTROLYTIC C612	DO-00310	FR105	DIODE D904
CE-00910	100uF KME200V	ELECTROLYTIC C613	TRANS & COILS		
CE-00260	1000uF 35V	ELECTROLYTIC C614	CO-00100	540	LINEARITY COIL L402
CE-00260	1000uF 35V	ELECTROLYTIC C615	CO-00195	3PIN 8Ø	WIDTH COIL L403
CC-00531	221pF 2KV	CERAMIC C618	CO-00260	KT-2625	LINE FILTER COIL L601
CC-00590	103pF AC 250V	CERAMIC C621	CO-00430	101	COHKE COIL L602
CC-00531	221pF 2KV	CERAMIC C622	CO-00430	101	CHOKE COIL L603
CC-00590	103pF AC 250V	CERAMIC C623	CO-00430	101	CHOKE COIL L901
CL-00470	3.3uF 100V	M.F C701	CO-00290	KT-2018	DRIVE TRANS T401
CE-00330	10uF 50V	ELECTROLYTIC C702	FT-00140	KFS-61181	F. B. T. T402
CM-00080	224pF 100V	MYLAR C801	CO-00352	KT-2023M	PULSE TRANS T601
CM-00080	224pF 100V	MYLAR C802	ICS		
CM-00130	473pF 100V	MYLAR C803	IC-00310	uPC1397C	IC101
CM-00140	474pF 100V	MYLAR C804	IC-00240	TDA1675A, DBL2054	IC201
CE-00180	100uF 25V	ELECTROLYTIC C805	IC-00250	TDA2595	IC401
CE-00340	22uF 50V	ELECTROLYTIC C806	IC-00665	GD4030B, GD4070B	IC501
CE-00340	22uF 50V	ELECTROLYTIC C807	IC-00210	STR-S5741	IC601
CC-00390	222pF 500V	CERAMIC C901	CONNECTOR		
CE-00130	1000uF 16V	ELECTROLYTIC C902	WF-00032	3024-04	MOLEX BP11
CE-00240	220uF 35V	ELECTROLYTIC C903	WF-00161	FA-0640-09	MOLEX BP102
CE-00650	47uF 250V	ELECTROLYTIC C904	WF-00150	LW-0640-08	WAFER BP104
CE-00260	1000uF 35V	ELECTROLYTIC C906	WF-00160	LW-0640-09	WAFER BP104
CL-00020	104pF 200V, 250V	METALLIZED C907	WF-00217	3024-8	MOLEX BP104
CM-00130	473pF 100V	MYLAR C908	WF-00216	3024-9	MOLEX BP104
DIODES			WF-00270	280611-1 AMP	WAFER BP201
DO-00050	1N4148	DIODE D101	CN-00062	AMP 6PIN	HOUSING BP201
DO-00120	1N5231	DIODE-ZENER D102	WF-00130	LW-0640-05	WAFER BP202
DO-00050	1N4148	DIODE D103	CN-00100	CHP-1145-03	HOUSING BP401
DO-00050	1N4148	DIODE D104	WF-00120	LW-0640-04	WAFER BP701
DO-00050	1N4148	DIODE D105	TRANSISTORS		
DO-00050	1N4148	DIODE D106	TR-00420	2N3904	TR Q101
DO-00010	1N4002	DIODE D201	TR-00420	2N3904	TR Q102
DO-00050	1N4148	DIODE D202	TR-00420	2N3904	TR Q103
DO-00110	1N4742	DIODE-ZENER D401	TR-00420	2N3904	TR Q104
DO-00010	1N4002	DIODE D402	TR-00420	2N3904	TR Q105
DO-00230	BY-228	DIODE D404	TR-00155	2SC2068, 2SC1507	TR Q301
DO-00260	BYT13-800	DIODE D405	TR-00155	2SC2068, 2SC1507	TR Q302
DO-00310	FR105	DIODE D406	TR-00155	2SC2068, 2SC1507	TR Q303
DO-00050	1N4148	DIODE D407	TR-00220	2SC2611, KSC2688	TR Q401
DO-00110	1N4742	DIODE-ZENER D410	TR-00380	2SD1880, KSD5072	TR Q402
DO-00120	1N5231	DIODE-ZENER D501	TR-00150	2SC1815, KTC3198	TR Q501
DO-00300	KBL-06, PBL406	DIODE D601	TR-00150	2SC1815, KTC3198	TR Q502
DO-00430	RU1P, BYV16	DIODE D602			
DO-00280	EG1Z, 1N4937	DIODE D603			
DO-00280	EG1Z, 1N4937	DIODE D604			
DO-00380	PFR-856	DIODE D605			

**KTM-F 14" PARTS LIST**

CODE NO.	DESCRIPTION	REF. NO
TRANSISTORS		
TR-00360	2SD1207 TR	Q601
TR-00510	BDX53C, BDW93C TR	Q701
TR-00430	2N3906 TR	Q702
TR-00150	2SC1815, KTC3198 TR	Q801
TR-00150	2SC1815, KTC3198 TR	Q521

POSISTOR

PR-00010 6D3A5140M, DP3BG140MY14 POSISTOR PR601

FUSE

FS-00100	250V 4A	FUSE	F601
FC-00010	CLIP	FUSE	F601

THERMISTOR

TH-00010 8D-13 THERMISTOR TH601

CHANGE PARTS OF 10" MONITOR

CRT NO.: A23KQT22X12 - 22.5φ

RC-00790	1/4W	18Kohm	CARBON	R122
RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00210	1/4W	2.2ohm	CARBON	R201
RC-00970	1/4W	180Kohm	CARBON	R210
RC-00730	1/4W	8.2Kohm	CARBON	R212
RC-00410	1/4W	270ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RM-00470	2W	2.2ohm	METAL	R418
RC-00710	1/4W	6.8Kohm	CARBON	R706
JP-00030	15mm		JUMP WIRE	R901
RM-00080	1W	6.2ohm	METAL	R903
REMOVE	1/4W	100Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CL-00140	224pF	200V, 250V	METALLIZED	C418*
CL-00330	222pF	1.6KV	METALLIZED	C420*
CL-00370	332pF	1.6KV	METALLIZED	C421*
CL-00192	153pF	630V	METALLIZED	C422*
CE-00640	10uF	250V	ELECTROLYTIC	C904
CE-00370	220uF	50V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	D903
CO-00121	014		LINEARITY COIL	L402
JP-00010	5mm		JUMP WIRE	L901
FT-00135	FC-1473		F. B. T	T402

CHANGE PARTS OF 14" MONITORCRT NO.: A34KQY42X02 - 29φ NECK BOARD
DY NO.: DSE-1492EL

RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00190	1/4W	1.3ohm	CARBON	R201
RC-00970	1/4W	180Kohm	CARBON	R210
RC-00410	1/4W	270ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RM-00470	2W	2.2ohm	METAL	R418
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00080	1W	6.2ohm	METAL	R903
REMOVE	1/4W	100Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CL-00070	434pF	200V, 250V	METALLIZED	C418*
CL-00380	392pF	1.6KV	METALLIZED	C420*
CL-00192	153pF	630V	METALLIZED	C422*
CE-00640	10pF	250V	ELECTROLYTIC	C904
CE-00370	220uF	50V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	C903
FT-00130	FA-2007		F. B. T	T402

CHANGE PARTS OF 14" MONITOR

CRT NO.: A34KQV42X02 - 22.5φ

RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00210	1/4W	2.2ohm	CARBON	R201
RC-00960	1/4W	150Kohm	CARBON	R210
RC-00410	1/4W	270ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RM-00470	2W	2.2ohm	METAL	R418
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00080	1W	6.2ohm	METAL	R903
RC-00900	1/4W	68Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CL-00330	222pF	1.6KV	METALLIZED	C420*
CL-00192	153pF	630V	METALLIZED	C422*
CE-00640	10uF	250V	ELECTROLYTIC	C904
FT-00130	FA-2007		F. B. T	T402

CHANGE PARTS OF 20" MONITOR

CRT NO.: A48KRD82X02 - 29φ

RC-00750	1/4W	10Kohm	CARBON	R124
RM-00680	2W	0.47ohm	METAL	R418
RM-00691	3W	3.9ohm	METAL	R903
CL-00100	564pF	200V, 250V	METALLIZED	C418*
CL-00390	472pF	1.6KV	METALLIZED	C421*
CE-00370	220uF	50V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	D903
CO-00166	600		LINEARITY COIL	L402

CHANGE PARTS OF 14" EGA MONITOR

CRT NO. : M34JZT20/30X55 - 29φ

RC-00960	1/4W	150Kohm	CARBON	R114
RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00035	1/16W	75ohm	CARBON	R126
RC-00035	1/16W	75ohm	CARBON	R128
RC-00035	1/16W	75ohm	CARBON	R130
RC-00190	1/4W	1.3ohm	CARBON	R201
RC-00410	1/4W	270ohm	CARBON	R207
RM-00530	2W	100ohm	METAL	R209
RC-00920	1/4W	82Kohm	CARBON	R210
RC-00730	1/4W	8.2Kohm	CARBON	R212
RC-00720	1/4W	7.5Kohm	CARBON	R404
RC-00850	1/4W	33Kohm	CARBON	R406
RC-00410	1/4W	270ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RM-00470	2W	2.2ohm	METAL	R418
RC-00490	1/4W	660ohm	CARBON	R501
RM-00820	3W	7.5Kohm	METAL	R516
RC-00710	1/4W	6.8Kohm	CARBON	R706
RC-00730	1/4W	8.2Kohm	CARBON	R805
RM-00080	1W	6.2 ohm	METAL	R903
RC-00960	1/4W	150Kohm	CARBON	R905
RM-00710	3W	15 ohm	METAL	R906
RC-00920	1/4W	82Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CC-00498	5pF	500V	CERAMIC	C101
CL-00100	564pF	200V, 250V	METALLIZED	C418*
CL-00270	102pF	1.6KV	METALLIZED	C420*
CL-00291	123PF	1.6KV	METALLIZED	C421*
CM-00130	473pF	100V	MYLAR	C802
R E M O V E				C803
R E M O V E				C804
CE-00640	10uF	250V	ELECTROLYTIC	C904
CO-00750	E13		LINEARITY COIL	L402
FT-00220	KFS-61187		F. B. T	T402

CHANGE PARTS OF 15"17" MONITOR

CRT NO. : A36EAM40X - 22.5φ

RC-00750	1/4W	10Kohm	CARBON	R124
RC-00410	1/4W	270ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
CL-00100	564pF	200V, 250V	METALLIZED	C418*
CL-00330	222pF	1.6KV	METALLIZED	C420*
CL-00192	153pF	630 V	METALLIZED	C422*
CE-00635	22uF	250 V	ELECTROLYTIC	C904
CE-00370	220uF	50 V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	D903
FT-00130	FA-2007		F. B. T	T402

CHANGE PARTS OF 25" MONITOR

CRT NO. : A59KPR84X02 - 29φ

RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00190	1/4W	1.3 ohm	CARBON	R201
RC-00930	1/4W	100Kohm	CARBON	R210
RC-00860	1/4W	39 Kohm	CARBON	R219
RC-00410	1/4W	270 ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00080	1W	6.2 ohm	METAL	R903
RM-00050	1W	2.7 ohm	METAL	R906
RC-00940	1/4W	120Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CL-00395	562pF	1.6KV	METALLIZED	C420*
CL-00291	123pF	1.6KV	METALLIZED	C421*
CL-00195	223pF	630 V	METALLIZED	C422*
R E M O V E				C803
CE-00585	33uF	200 V	ELECTROLYTIC	C904
CO-00780	025S		LINEARITY COIL	L402
FT-00087	KFS-61088		F. B. T	T402
CO-00356	KT-2623M		PULSE TRANS	T601

CHANGE PARTS OF 25" MONITOR

CRT NO. : A59KTB50X02 - 29φ

RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00190	1/4W	1.3 ohm	CARBON	R201
RC-00930	1/4W	100Kohm	CARBON	R210
RC-00860	1/4W	39Kohm	CARBON	R219
RC-00750	1/4W	10Kohm	CARBON	R407
RC-00520	1/4W	1Kohm	CARBON	R413
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00080	1W	6.2 ohm	METAL	R903
RM-00050	1W	2.7 ohm	METAL	R906
RM-00940	1/4W	120Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CC-00099	102pF	50V	CERAMIC	C301
CC-00099	102pF	50V	CERAMIC	C302
CC-00099	102pF	50V	CERAMIC	C303
CL-00060	334pF	200V, 250V	METALLIZED	C418*
CL-00410	822pF	1.6KV	METALLIZED	C421*
CL-00192	153pF	630V	METALLIZED	C422*
R E M O V E				C803
CE-00585	33uF	200V	ELECTROLYTIC	C904
CE-00370	220uF	50V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	D903
CO-00111	240		LINEARITY COIL	L402
FT-00087	KFS-61088		F. B. T	T402
CO-00356	KT-2623M		PULSE TRANS	T601



CHANGE PARTS OF 26" EGA MONITOR

CRT NO.: A63ADG25X - 29φ

RC-00900	1/4W	68Kohm	CARBON	R114
RC-00750	1/4W	10Kohm	CARBON	R115
RC-00750	1/4W	10Kohm	CARBON	R120
RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00190	1/4W	1.3ohm	CARBON	R201
RC-00930	1/4W	100Kohm	CARBON	R210
RC-00720	1/4W	7.5Kohm	CARBON	R404
RC-00820	1/4W	24Kohm	CARBON	R406
RC-00740	1/4W	9.1Kohm	CARBON	R407
RC-00520	1/4W	1Kohm	CARBON	R413
RM-00470	2W	2.2ohm	METAL	R418
RM-00280	1W	1Kohm	METAL	R421
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00476	2W	10ohm	METAL	R903
RM-00710	3W	15ohm	METAL	R906
REMOVE	1/4W	100Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CL-00065	394pF	200V, 250V	METALLIZED	C418*
CL-00330	222pF	1.6KV	METALLIZED	C420*
CL-00192	153pF	630V	METALLIZED	C422*
CE-00585	33uF	200V	ELECTROLYTIC	C904
CE-00370	220uF	50V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	D903
CO-00113	19.5		LINEARITY COIL	L402
FT-00170	KFS-60418C		F. B. T	T402
CO-00357	KT-2615E		PULSE TRANS	T601

CHANGE PARTS OF 29" EGA MONITOR

CRT NO.: A68KVL74X02 - 29φ

RC-00900	1/4W	68Kohm	CARBON	R114
RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00190	1/4W	1.3ohm	CARBON	R201
RC-01000	1/4W	330Kohm	CARBON	R208
RC-00930	1/4W	100Kohm	CARBON	R210
RC-00720	1/4W	7.5Kohm	CARBON	R404
RC-00410	1/4W	270ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RM-00470	2W	2.2ohm	METAL	R418
RM-00280	1W	1Kohm	METAL	R421
RC-00890	1/4W	56Kohm	CARBON	R801
RM-00476	2W	10ohm	METAL	R903
RM-00459	2W	0.2ohm	METAL	R906
RC-00960	1/4W	150Kohm	PIN②~⑧	IC601
RC-00750	1/4W	10Kohm	CARBON	C105~GND
VR-00410	CET	92E	B 100K W	RV203
CM-00030	104pF	100V	MYLAR	C105
CL-00140	224pF	200V, 250V	METALLIZED	C418*
CL-00300	152pF	1.6KV	METALLIZED	C420*
CL-00410	822pF	1.6KV	METALLIZED	C421*
CL-00192	153pF	630V	METALLIZED	C422*
CM-00030	104pF	100V	MYLAR	C801
CM-00030	104pF	100V	MYLAR	C802

R E M O V E				C803
CE-00581	22uF	200V	ELECTROLYTIC	C904
CE-00370	220uF	50V	ELECTROLYTIC	C909
DO-00450	RU-3, UF156		DIODE	D909
CO-00113	19.5		LINEARITY COIL	L402
FT-00170	KFS-60418C		F. B. T	T402
CO-00357	KT-2615C		PULSE TRANS	T601

CHANGE PARTS OF 29" MONITOR

CRT NO.: A68KVL74X02 - 29φ

RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00190	1/4W	1.3Kohm	CARBON	R201
RC-00930	1/4W	100Kohm	CARBON	R210
RC-00410	1/4W	270 ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00691	3W	3.9 ohm	METAL	R903
RM-00470	2W	2.2 ohm	METAL	R906
VR-00410	CET	92E	B 100K W	RV203
CL-00380	392pF	1.6KV	METALLIZED	C420*
CL-00291	123pF	1.6KV	METALLIZED	C421*
CL-00192	153pF	630V	METALLIZED	C422*
CM-00030	104pF	100V	MYLAR	C802
R E M O V E				C803
CE-00585	33uF	200V	ELECTROLYTIC	C904
CO-00113	19.5		LINEARITY COIL	L402
FT-00087	KFS-61088		F. B. T	T402
CO-00356	KT-2623M		PULSE TRANS	T601

CHANGE PARTS OF 29" 33" MONITOR

CRT NO.: M(SI)68JUZ99X - 29φ
M(SI)78JUA29X - 29φ

RC-00730	1/4W	8.2Kohm	CARBON	R124
RC-00195	1/4W	1.5 ohm	CARBON	R201
RC-00930	1/4W	100Kohm	CARBON	R210
RC-00410	1/4W	270 ohm	CARBON	R407
RC-01000	1/4W	330Kohm	CARBON	R413
RC-00710	1/4W	6.8Kohm	CARBON	R706
RM-00480	2 W	15 ohm	METAL	R903
RM-00470	2 W	2.2 ohm	METAL	R906
REMOVE	1/4W	100Kohm	PIN②~⑧	IC601
VR-00410	CET	92E	B 100K W	RV203
CL-00380	392pF	1.6 KV	METALLIZED	C420*
CL-00291	123pF	1.6 KV	METALLIZED	C421*
CL-00192	153pF	630 V	METALLIZED	C422*
CM-00030	104pF	100 V	MYLAR	C802
CM-00040	153pF	100 V	MYLAR	C803
CE-00585	33pF	200 V	ELECTROLYTIC	C904
CO-00113	19.5		LINEARITY COIL	L402
FT-00087	KFS-61088		F. B. T	T402
CO-00356	KT-2623M		PULSE TRANS	T601

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